

CLUSTALW Result

GenomeNet CLUSTALW Server (Kyoto Center) on Fri Aug 8 05:38:32 JST 2003

CLUSTAL W (1.81) Multiple Sequence Alignments

Sequence type explicitly set to Protein

Sequence format is Pearson

Sequence 1: Sep_5_1999_22_55 1032 aa

Sequence 2: Sep_20_2001_23_16 1032 aa

Start of Pairwise alignments

Aligning...

Sequences (1:2) Aligned. Score: 100

Sequences (2:2) Aligned. Score: 100

Guide tree file created: [clustalw.dnd]

Start of Multiple Alignment

There are 1 groups

Aligning...

Group 1: Sequences: 2 Score:17089

Alignment Score 6453

CLUSTAL-Alignment file created [clustalw.aln]

CLUSTAL W (1.81) multiple sequence alignment

```
Sep_5_1999_22_55      MNDRVKIRWKEAKERIGNAYHDYGR LCA AHPKACLSMSLLTMIVLSYPTITRLRLPVSTP
Sep_20_2001_23_16     MNDRVKIRWKEAKERIGNAYHDYGR LCA AHPKACLSMSLLTMIVLSYPTITRLRLPVSTP
*****
```

```
Sep_5_1999_22_55      IDVFWSEHLHVNDKIAPFWINENPAS YIQQFIVSTTISPWNATEMGP EHAVRAAIATAFR
Sep_20_2001_23_16     IDVFWSEHLHVNDKIAPFWINENPAS YIQQFIVSTTISPWNATEMGP EHAVRAAIATAFR
*****
```

```
Sep_5_1999_22_55      IRQILLAEPAVEELCLRLANQRQDSSWPF RSKSLCVVLSPASIWYNNLQKFREDDDTITT
Sep_20_2001_23_16     IRQILLAEPAVEELCLRLANQRQDSSWPF RSKSLCVVLSPASIWYNNLQKFREDDDTITT
*****
```

```
Sep_5_1999_22_55      VFNEHCKSTFCMRDLLLGAPIAATGIKQKYQ TNRKRKIEFAVTMFFARYSKKVIQGIREK
Sep_20_2001_23_16     VFNEHCKSTFCMRDLLLGAPIAATGIKQKYQ TNRKRKIEFAVTMFFARYSKKVIQGIREK
*****
```

```
Sep_5_1999_22_55      LQKEFELVDTTPNDQRTFVQVYFHPLKTFSDYIPLISTYFVCMIVVYSSRKIQMVASRW
Sep_20_2001_23_16     LQKEFELVDTTPNDQRTFVQVYFHPLKTFSDYIPLISTYFVCMIVVYSSRKIQMVASRW
*****
```

```
Sep_5_1999_22_55      GLAFASSFTVASTLLMTTGICAHLDLSTTTWGSEVPYPYIALIMGLENTLCITRSVVYTSP
Sep_20_2001_23_16     GLAFASSFTVASTLLMTTGICAHLDLSTTTWGSEVPYPYIALIMGLENTLCITRSVVYTSP
*****
```

```
Sep_5_1999_22_55      SLDVSSRIAHGLSQEGYKLT KYI LELLALLIGFLTRISDIQEF CQFSVICVTVDFYMQ L
Sep_20_2001_23_16     SLDVSSRIAHGLSQEGYKLT KYI LELLALLIGFLTRISDIQEF CQFSVICVTVDFYMQ L
*****
```

```
Sep_5_1999_22_55      FFYAPCLTFDLQRLGLEEK RKFAE ILLYEEI PRLKNYAPVSCPMRKIWP KLFVMKKMQKR
Sep_20_2001_23_16     FFYAPCLTFDLQRLGLEEK RKFAE ILLYEEI PRLKNYAPVSCPMRKIWP KLFVMKKMQKR
*****
```

```

Sep_5_1999_22_55      RVSDSGIEDVMKNDEQRRLISSEFDSKDDGDVQEPRPEDSVRMKIMYFITRTRIVQRTI
Sep_20_2001_23_16      RVSDSGIEDVMKNDEQRRLISSEFDSKDDGDVQEPRPEDSVRMKIMYFITRTRIVQRTI
*****

Sep_5_1999_22_55      LVVFAIWTVFLVFFVGSRLGMESNLTSKLWPPVAHEYNISLNSRYVTFLLPPIVINAIVH
Sep_20_2001_23_16      LVVFAIWTVFLVFFVGSRLGMESNLTSKLWPPVAHEYNISLNSRYVTFLLPPIVINAIVH
*****

Sep_5_1999_22_55      PTDILLQNVEKTHVNVPNNEEDAPILRSRIDWLEMQLKMYLAAFWLLITTVISFFAYVF
Sep_20_2001_23_16      PTDILLQNVEKTHVNVPNNEEDAPILRSRIDWLEMQLKMYLAAFWLLITTVISFFAYVF
*****

Sep_5_1999_22_55      LIDRWKLRGVKQIQEQQMSETTDSSETVKNFVDLPIVYQGHRFPYESVAIDPEDTSTF
Sep_20_2001_23_16      LIDRWKLRGVKQIQEQQMSETTDSSETVKNFVDLPIVYQGHRFPYESVAIDPEDTSTF
*****

Sep_5_1999_22_55      VSCCQEGVVYVWNTQTGQRTLRLINRLRAVPEKGKEIPSAPKIWAIKRRHFFSNTTSHVVC
Sep_20_2001_23_16      VSCCQEGVVYVWNTQTGQRTLRLINRLRAVPEKGKEIPSAPKIWAIKRRHFFSNTTSHVVC
*****

Sep_5_1999_22_55      REDDVAVVRLDGSIEFLRIDYDRTDGTIRVRKIELLSVRAHQKPVCRIAIWKSQLITSS
Sep_20_2001_23_16      REDDVAVVRLDGSIEFLRIDYDRTDGTIRVRKIELLSVRAHQKPVCRIAIWKSQLITSS
*****

Sep_5_1999_22_55      FDRSIKMWNWAENPEQIDISNVFLAHNSPVVNLAVDEATSIMYSSCEEGVICWWNLNTGE
Sep_20_2001_23_16      FDRSIKMWNWAENPEQIDISNVFLAHNSPVVNLAVDEATSIMYSSCEEGVICWWNLNTGE
*****

Sep_5_1999_22_55      LIRTNDNNYTWAFQLATSSDYLLGFYGSQLYMWNVENGQLACRVSDALGDGTSEDTLYT
Sep_20_2001_23_16      LIRTNDNNYTWAFQLATSSDYLLGFYGSQLYMWNVENGQLACRVSDALGDGTSEDTLYT
*****

Sep_5_1999_22_55      VGSSGVVSFDDQVAATTSSDSVTFWDLKHRAIIGKVKLNGKISSMRKNTSHSVLCGVDNS
Sep_20_2001_23_16      VGSSGVVSFDDQVAATTSSDSVTFWDLKHRAIIGKVKLNGKISSMRKNTSHSVLCGVDNS
*****

Sep_5_1999_22_55      MYSVTVPLVRFK
Sep_20_2001_23_16      MYSVTVPLVRFK
*****
(Sep_5_1999_22_55:0.00000, Sep_20_2001_23_16:0.00000);

```

[N-J Tree] [Unrooted N-J Tree] [Dendrogram] [Unrooted dendrogram]

Generate profile HMM